Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Third and Final Bill

Quality Control Reports

(Book No. 03)

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QC ABSTRACT

IE OF WORK: Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and r adjusted Layouts.

	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.83	2	2
0	RCC(M20)	Compressive Strength(7days and 28days)	6 set /100-150 cum	104.6	12	12
1	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	10 set /300-350 cum	366.21	20	20
2	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-06-18-24** **Date: 16-06-2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Exeecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 13-06-2022

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 14-06-2022

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.14	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-06-18-24** **Date: 12-07-2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 13-06-2022

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 14-06-2022

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-06-18-24** **Date: 15-06-2022**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	13-06-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-18-24** **Date: 15-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-06-18-24** **Date: 15-06-2022**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	13-06-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-18-24** **Date: 15-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Authorized Signature
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-06-18-24** **Date: 15-06-2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 13-06-2022

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 13-06-2022

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	44	76	7.6	92.4	60-95	75-100	85-100	95-100
4	1.18 mm	215	291	29.1	70.9	30-70	55-90	75-100	90-100
5	600 micron	245	536	53.6	46.4	15-34	35-59	60-79	80-100
6	300 micron	201	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	178	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-06-18-24** **Date: 15-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	8.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : **CP-2022-06-18-24** **Date: 22-06-2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 20-06-2022

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 20-06-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

ID	:	CP-2022-06-18-24 **Date: 05-07-2022**
ect Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
cy	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
omer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
of Receipt	:	01-07-2022
ple Type /Size	:	Precast Cover Slab (100 mm Thick)
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
of test	:	01/07/2022

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

ıe results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

ı ID	:	**CP-2022-06-18-24** **Date: 07-07-2022**
ject Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
ncy	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
tomer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
e of Receipt	:	02-07-2022
ıple Type /Size	:	Precast Cover Slab (250 mm Thick)
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
e of test	:	02/07/2022

	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
	Cover Slab-1	200.72	250.65	3.125	31637	580.5	18.3	17.1	21.3
	Cover Slab-2	200.81	258.75	3.135	31665	620.5	19.6	18.2	22.8
	Cover Slab-3	200.98	250.92	3.156	31719	635.5	20.0	18.6	23.3

he results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-18-24** **Date: 04/07/2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 28-06-2022

Customer ID : Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	150.59 X 151.78 X 149.54	22856	8.124	434.2	19.0	18.6
2	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	151.65 X 151.42 X 151.01	22963	8.299	414.4	18.0	
3	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	149.70 X 151.34 X 149.22	22655	8.360	424.4	18.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2022-06-18-24**

Date: 25/07/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Exceecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 28-06-2022

Customer ID : Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	150.14 X 150.24 X 151.17	22558	8.371	539.1	23.9	23.3
2	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	150.14 X 151.06 X 149.70	22680	8.834	521.0	23.0	
3	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	151.40 X 149.27 X 151.13	22599	8.213	520.6	23.0	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ರಾಜರಾಜೇಶ್ವರಿ ಉಪ ವಿಭಾಗ

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ರಾಜರಾಜೇಶ್ವರಿನಗರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24 **Date: 04/07/2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Exeecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 28-06-2022

Customer ID : Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	149.38 X 151.87 X 150.89	22687	8.523	427.5	18.8	18.6
2	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	149.96 X 149.52 X 150.66	22422	8.931	407.2	18.2	
3	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	150.08 X 149.06 X 150.69	22370	9.048	423.6	18.9	

* The results obtained are satisfactory as per standard requirements.

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ಸಿವಿಲ್ ಪ್ರೊ ಬೆಂಗಳೂರು

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-18-24** **Date: 25/07/2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Exceecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 28-06-2022

Customer ID : Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	150.83 X 150.35 X 149.36	22677	8.491	539.2	23.8	23.4
2	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	150.57 X 150.73 X 150.06	22696	8.747	521.4	23.0	
3	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	150.96 X 149.16 X 150.69	22518	8.602	530.2	23.5	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-18-24** **Date: 04/07/2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 28-06-2022

Customer ID : Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	149.27 X 149.57 X 150.99	22326	8.965	417.8	18.7	18.8
2	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	150.11 X 150.21 X 150.22	22549	9.099	425.2	18.9	
3	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	03/07/2022	149.76 X 151.76 X 150.08	22728	8.501	430.5	18.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-18-24**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts. **Date: 25/07/2022**

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 28-06-2022

Customer ID : Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	150.25 X 149.64 X 149.57	22482	8.523	530.3	23.6	23.1
2	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	149.78 X 151.39 X 149.49	22676	8.930	515.1	22.7	
3	Drain Bottom Raft - Thanisandra 2nd Cross W0829, W0831	M20	26/06/2022	24/07/2022	150.62 X 150.01 X 150.56	22594	8.840	520.3	23.0	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24 **Date: 06/07/2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 01-07-2022

Customer ID : Drain Side Wall - Thanisandra 2nd Cross W0829, W0832

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	150.63 X 151.10 X 149.85	22759	8.767	417.4	18.3	18.2
2	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	149.67 X 149.81 X 149.43	22422	8.789	408.4	18.2	
3	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	150.76 X 149.16 X 150.38	22487	8.297	407.3	18.1	

* The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24 Date: 27/07/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 01-07-2022

Customer ID : Drain Side Wall - Thanisandra 2nd Cross W0829, W0832

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	151.26 X 151.04 X 150.96	22847	8.887	532.5	23.3	23.3
2	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	150.75 X 149.69 X 149.85	22566	8.457	518.2	23.0	
3	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	149.07 X 151.60 X 149.25	22599	8.962	531.4	23.5	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-18-24**

Date: 06/07/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 01-07-2022

Customer ID : Drain Side Wall - Thanisandra 2nd Cross W0829, W0832

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	150.36 X 151.82 X 149.27	22828	8.480	423.9	18.6	18.4
2	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	149.52 X 150.42 X 149.96	22491	8.824	412.4	18.3	
3	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	151.58 X 150.84 X 151.70	22864	8.778	415.9	18.2	

* The results obtained are satisfactory as per standard requirements.

ಕಿರಿಯಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24 Date: 27/07/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 01-07-2022

Customer ID : Drain Side Wall - Thanisandra 2nd Cross W0829, W0832

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	151.80 X 150.15 X 149.92	22792	8.488	544.8	23.9	23.3
2	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	150.79 X 149.22 X 149.61	22501	8.353	498.8	22.2	
3	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	150.35 X 149.78 X 150.70	22519	8.315	533.4	23.7	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts. **Date: 06/07/2022**

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 01-07-2022

Customer ID : Drain Side Wall - Thanisandra 2nd Cross W0829, W0832

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	151.76 X 150.17 X 150.85	22791	9.063	425.5	18.7	18.8
2	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	151.28 X 149.97 X 151.08	22689	8.954	426.1	18.8	
3	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	06/07/2022	150.57 X 150.79 X 149.54	22704	8.253	429.5	18.9	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/07/2022

Lab ID	:	CP-2022-06-18-24
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road. 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	01-07-2022
Customer ID	:	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	151.72 X 151.44 X 150.37	22976	9.014	551.4	24.0	23.1
2	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	151.85 X 149.61 X 150.62	22718	9.030	504.6	22.2	
3	Drain Side Wall - Thanisandra 2nd Cross W0829, W0832	M20	29/06/2022	27/07/2022	151.40 X 151.96 X 150.07	23005	8.195	531.7	23.1	

* The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24

Date: 28/07/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 23-07-2022

Customer ID : Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	151.24 X 151.88 X 151.56	22970	8.820	589.6	25.7	25.6
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	150.16 X 150.28 X 149.25	22566	8.487	608.4	27.0	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	149.81 X 151.40 X 150.71	22681	8.694	549.5	24.2	

* The results obtained are satisfactory as per standard requirements.

ಕಿರಿಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬಾಣಸವಾಡಿ ವಿಭಾಗ

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2022-06-18-24**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Date: 18/08/2022

Agency : Exceeutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 23-07-2022

Customer ID : Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	151.04 X 150.53 X 149.63	22736	8.599	767.2	33.7	33.1
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	150.11 X 151.13 X 150.01	22686	8.632	726.1	32.0	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	150.17 X 149.01 X 151.85	22377	8.739	748.8	33.5	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬಾಲಾಜಿನಗರ ಉಪ ವಿಭಾಗ

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ಬಾಲಾಜಿನಗರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24

Date: 28/07/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 23-07-2022

Customer ID : Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	151.20 X 151.62 X 151.41	22925	8.639	595.8	26.0	25.6
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	150.50 X 151.40 X 150.58	22786	8.445	592.9	26.0	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	151.69 X 150.32 X 149.27	22801	8.925	565.4	24.8	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/08/2022

Lab ID	:	CP-2022-06-18-24
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	23-07-2022
Customer ID	:	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	149.39 X 149.32 X 150.72	22307	9.023	738.8	33.1	32.9
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	150.11 X 149.21 X 150.90	22398	8.457	718.4 .	32.1	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	149.45 X 151.00 X 150.44	22566	8.703	754.1	33.4	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಪ್ತಿರಾಜಾಜಿನಗರ ಉಪ ವಿಭಾಗ

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ರಾಜಾಜಿನಗರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-21

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/07/2022

Lab ID	:	CP-2022-06-18-24
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	23-07-2022
Customer ID	:	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	149.14 X 149.11 X 150.39	22239	8.962	567.0	25.5	25.5
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	150.84 X 149.89 X 149.48	22609	8.811	596.2	26.4	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	151.08 X 151.44 X 150.85	22880	8.138	566.2	24.7	

* The results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/08/2022

Lab ID	:	CP-2022-06-18-24
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	23-07-2022
Customer ID	:	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	151.12 X 150.54 X 151.31	22749	8.161	771.5	33.9	33.3
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	150.74 X 151.32 X 151.66	22810	8.939	738.0	32.4	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	151.09 X 151.71 X 151.60	22923	8.505	772.5	33.7	

*The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೆಂಗಳೂರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/07/2022

Lab ID	:	CP-2022-06-18-24
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	23-07-2022
Customer ID	:	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	150.72 X 151.38 X 151.98	22815	8.368	590.4	25.9	25.7
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	151.77 X 149.43 X 149.51	22680	8.297	597.3	26.3	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	149.42 X 150.02 X 150.05	22416	8.532	555.6	24.8	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬಾಣಸವಾಡಿ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/08/2022

Lab ID	:	CP-2022-06-18-24
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Exceeutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	23-07-2022
Customer ID	:	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	150.37 X 150.81 X 149.29	22676	8.601	754.4	33.3	33.1
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	149.68 X 150.76 X 150.33	22565	8.996	726.5	32.2	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	151.10 X 150.67 X 149.31	22766	8.564	772.2	33.9	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬಾಕಿ ಕಾಮಗಾರಿಗಳ ಉಸ್ತುವಾರಿ ವಿಭಾಗ

FOR CIVIL Pro.
KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro
Sig.....
Date.....
BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ, ಬಂಗಳೂರು Page1/1

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

Lab ID : CP-2022-06-18-24

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Date: 28/07/2022

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 23-07-2022

Customer ID : Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	149.60 X 150.21 X 150.55	22471	8.244	576.7	25.7	25.8
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	150.70 X 150.35 X 151.25	22657	8.307	607.8	26.8	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	28/07/2022	150.25 X 150.19 X 150.28	22566	8.303	561.1	24.9	

The results obtained are satisfactory as per standard requirements.

ಕಿರಿಯ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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M: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/08/2022

Lab ID : CP-2022-06-18-24

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Exeecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 23-07-2022

Customer ID : Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	151.04 X 151.54 X 150.67	22888	8.860	775.2	33.9	33.2
2	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	151.60 X 150.92 X 149.82	22879	8.787	736.7	32.2	
3	Cement Concrete Pavement - Rachenahalli Beside ICICI SBI ATM	M30	21/07/2022	18/08/2022	150.83 X 151.65 X 150.45	22874	8.498	764.4	33.4	

*The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಕ.ಗ್ರಾ.ಸಿ ಬಾ.ಯೋಜನೆಗಳ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕರ್ನಾಟಕ ಗ್ರಾಮೀಣ ಮೂಲಸೌಕರ್ಯ
ಅಭಿವೃದ್ಧಿ ಯೋಜನೆಗಳ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/07/2022

Lab ID : CP-2022-06-18-24

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 25-07-2022

Customer ID : Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	29/07/2022	149.07 X 149.05 X 151.40	22219	8.442	562.5	25.3	25.7
2	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	29/07/2022	149.30 X 150.39 X 150.92	22453	8.779	603.2	26.9	
3	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	29/07/2022	151.44 X 149.06 X 151.75	22573	9.015	560.7	24.8	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯ[illegible]ಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24 Date: 19/08/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 25-07-2022

Customer ID : Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	19/08/2022	150.93 X 151.84 X 150.19	22917	8.664	764.2	33.3	33.1
2	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	19/08/2022	150.83 X 150.74 X 149.80	22736	8.156	747.9	32.9	
3	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	19/08/2022	150.93 X 150.60 X 149.04	22731	8.118	750.9	33.0	

*The results obtained are satisfactory as per standard requirements.

ಪಕಾಯಕ ಅಭಿಯಂತರರು
ಸಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorised Signatory
Quality Manager

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

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Date: 29/07/2022

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Agency : Exceecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 25-07-2022

Customer ID : Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	29/07/2022	149.25 X 149.71 X 151.55	22345	8.726	570.7	25.5	25.4
2	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	29/07/2022	150.14 X 149.14 X 150.64	22393	8.881	588.6	26.3	
3	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	29/07/2022	150.36 X 149.44 X 151.74	22469	8.715	545.2	24.3	

*The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಿಲ್ಲಾ ಪಂಚಾಯತ್
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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KARTHIK RECHAN
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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-06-18-24

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts. Date: 19/08/2022

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 25-07-2022

Customer ID : Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	19/08/2022	151.33 X 150.28 X 150.88	22742	8.536	759.8	33.4	32.9
2	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	19/08/2022	151.68 X 151.24 X 151.05	22941	8.850	738.4	32.2	
3	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831	M30	22/07/2022	19/08/2022	149.70 X 150.00 X 150.41	22455	8.890	742.1	33.0	

* The results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-06-18-24

: Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Date: 29/07/2022

: Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

: BBMP/EE/BTP/WO/151/2019-20

: 25-07-2022

: Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 29/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	29/07/2022	150.98 X 151.64 X 151.11	22894	8.463	593.6	25.9	25.6
Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	29/07/2022	151.44 X 151.21 X 150.70	22899	8.712	610.6	26.7	
Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	29/07/2022	149.76 X 149.20 X 150.44	22344	8.159	542.6	24.3	

The results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-06-18-24**

Date: 19/08/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Exceeutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 25-07-2022

Customer ID : Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	19/08/2022	151.17 X 151.30 X 151.09	22872	9.070	762.2	33.3	33.1
2	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	19/08/2022	149.18 X 151.39 X 151.60	22584	8.924	744.4	33.0	
3	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	19/08/2022	151.05 X 149.80 X 150.60	22626	8.329	749.9	33.1	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/07/2022

Lab ID	:	CP-2022-06-18-24
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Exceeutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	25-07-2022
Customer ID	:	Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	29/07/2022	149.00 X 151.62 X 150.50	22592	8.493	573.3	25.4	25.3
2	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	29/07/2022	150.34 X 149.79 X 151.22	22520	8.480	596.9	26.5	
3	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	29/07/2022	150.56 X 151.45 X 149.50	22802	8.433	549.1	24.1	

* The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Authorized Signatory
Quality Manager

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-18-24 Date: 19/08/2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 25-07-2022

Customer ID : Cement Concrete Pavement - Thanisandra 2nd Cross W0829, W0831

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	19/08/2022	151.17 X 150.09 X 150.82	22689	8.945	767.6	33.8	33.2
2	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	19/08/2022	150.59 X 151.49 X 149.44	22814	8.677	733.5	32.2	
3	Cement Concrete Pavement - Thanisandra 2nd Cross W0829,	M30	22/07/2022	19/08/2022	150.01 X 150.59 X 151.16	22589	8.866	759.6	33.6	

*The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/07/2022

Lab ID	:	**CP-2022-06-18-24**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Exceeutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	25-07-2022
Customer ID	:	Cement Concrete Pavement - Thanisandra W0811
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0811	M30	22/07/2022	29/07/2022	151.32 X 151.32 X 150.33	22896	8.314	586.1	25.6	25.6
2	Cement Concrete Pavement - Thanisandra W0811	M30	22/07/2022	29/07/2022	150.77 X 151.45 X 149.42	22835	8.265	605.4	26.5	
3	Cement Concrete Pavement - Thanisandra W0811	M30	22/07/2022	29/07/2022	151.98 X 152.00 X 151.40	23100	8.517	567.1	24.5	

*The results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೊಮ್ಮನಹಳ್ಳಿ ಉಪ ವಿಭಾಗ

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-06-18-24

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Date: 19/08/2022

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 25-07-2022

Customer ID : Cement Concrete Pavement - Thanisandra W0811

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2022

Sl No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Thanisandra W0811	M30	22/07/2022	19/08/2022	151.91 X 151.28 X 150.30	22980	8.476	759.2	33.0	33.2
2	Cement Concrete Pavement - Thanisandra W0811	M30	22/07/2022	19/08/2022	149.60 X 151.50 X 149.49	22664	8.806	746.9	33.0	
3	Cement Concrete Pavement - Thanisandra W0811	M30	22/07/2022	19/08/2022	151.31 X 150.82 X 151.23	22821	8.879	765.6	33.6	

Results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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:9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-06-18-24

: Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Date: 07/07/2022

: Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

: BBMP/EE/BTP/WO/151/2019-20

: 02-07-2022

: PCC (Coping) -Thanisandra W0811

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 07/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC (Coping) - Thanisandra W0811	M15	30/06/2022	07/07/2022	150.36 X 149.14 X 149.16	22424	8.738	285.2	12.7	12.5
PCC (Coping) - Thanisandra W0811	M15	30/06/2022	07/07/2022	150.28 X 150.00 X 151.41	22543	8.994	283.0	12.6	
PCC (Coping) - Thanisandra W0811	M15	30/06/2022	07/07/2022	149.52 X 149.70 X 150.25	22383	9.064	271.0	12.1	

Results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಕ.ಗ.ಸಂ.ಪ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
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Authorized Signatory
Quality Manager

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5972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-06-18-24

: Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Date: 28/07/2022

: Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

: BBMP/EE/BTP/WO/151/2019-20

: 02-07-2022

: PCC (Coping) -Thanisandra W0811

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 28/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC (Coping) - Thanisandra W0811	M15	30/06/2022	28/07/2022	149.64 X 149.31 X 149.29	22343	8.857	398.4	17.8	17.4
PCC (Coping) - Thanisandra W0811	M15	30/06/2022	28/07/2022	150.63 X 149.19 X 149.96	22472	8.266	386.7	17.2	
PCC (Coping) - Thanisandra W0811	M15	30/06/2022	28/07/2022	149.33 X 151.99 X 151.91	22695	8.382	388.8	17.1	

Results obtained are satisfactory as per standard requirements.

ಕರ್ನಾಟಕ ಗ್ರಾಮೀಣ ಮೂಲಸೌಕರ್ಯ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ
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R K KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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M: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2022-06-18-24** **Date: 29-06-2022**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Exceecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	25-06-2022
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	25-06-2022

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	148	200	11988	23.823	1987.2	1899.7	Not less than 1800Kg/m^3
2	405	148	202	12108	22.125	1827.3		
3	404	149	203	12220	23.028	1884.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2022-06-18-24 Date: 29-06-2022

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	151	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	149	202	
3	403	152	200	
4	402	150	199	
5	401	153	199	
6	404	151	202	
7	403	149	203	
8	401	150	201	
9	404	152	202	
10	402	151	203	
11	400	149	201	
12	399	151	203	
13	400	149	200	
14	403	149	199	
15	402	150	202	
16	400	152	200	
17	403	151	202	
18	401	151	200	
19	400	151	201	
20	399	149	201	
Average of 20	401	151	201	

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Lab ID : CP-2022-06-18-24 Date: 29-06-2022

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	151	60506	286.4	4.7	4.7
2	400	149	59622	290.9	4.9	
3	403	152	61244	282.9	4.6	
4	402	150	60240	287.2	4.8	
5	401	153	61263	285.1	4.7	
6	404	151	61134	286.2	4.7	
7	403	149	60253	285.4	4.7	
8	401	150	60089	284.9	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-56

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2022-06-18-24** **Date: 15-07-2022**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 13-07-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 13-07-2022

Oven Dry Weight : 12000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	345	345	2.9	97.1	95-100
22.4	2859	3204	26.7	73.3	60-80
11.2	2179	5383	44.9	55.1	40-60
4.75	2251	7634	63.6	36.4	25-40
2.36	1621	9255	77.1	22.9	15-30
0.6	1423	10678	89.0	11.0	8-22
0.075	1038	11716	97.6	2.4	0-5

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-06-18-24 Date: 16-07-2022

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 14-07-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 14-07-2022

Oven Dry Weight : 12000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	365	365	3.0	97.0	95-100
22.4	2953	3318	27.7	72.4	60-80
11.2	2185	5503	45.9	54.1	40-60
4.75	2269	7772	64.8	35.2	25-40
2.36	1635	9407	78.4	21.6	15-30
0.6	1435	10842	90.4	9.7	8-22
0.075	1015	11857	98.8	1.2	0-5

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : CP-RW-2022-06-18-24

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts. **Date: 15-07-2022**

Agency : Excecutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 13-07-2022

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 13-07-2022

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	299.6	299.6
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.5	69.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	230.5	229.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.8
5	Aggregate impact value	(B/A)*100	22.9	23.1
6	Aggregate impact value (Mean of two tests)	Pecentage	23.0	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-06-18-24** **Date: 15-07-2022**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other adjusted Layouts.
Agency	:	Exceeutive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	13-07-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-07-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Specified limits as per MORTH specification table 400-12
Flakiness Index	10.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.5%	
Combined Flakiness and Elongation Index for WMM	21.3%	

* The results obtained are satisfactory as per standard requirements.

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